



ecology and environment, inc.

CLOVERLEAF BUILDING 3, 6405 METCALF, OVERLAND PARK, KANSAS 66202, TEL: 813/432-9961

International Specialists in the Environment

Preliminary Assessment of Former Coal Gasification Site

Cerclis entry/update 9-18-90
Site: Cedar Falls FMGP
ID #: IA D984571117
Book: 1.5
Circ: 9-10-90

RECEIVED

SEP 18 1990

PREP SECTION

To: Pete Culver, RPO Site Name: Cedar Falls FMGP
Thru: Philip Dula, E & E/FIT Street: E. 12th Street
From: E & E/FIT City: Cedar Falls
Date: 9/1/0/90 State: Iowa Zip Code: 50613

TDD #F-07-9005-013

PAN #FIA0281PA

EPA Site #S12

Project #001

FIT Task Leader: Scott Hayes

Cerclis unassigned

SPFD Contact: Pete Culver

Phone No. (913)551-7707

Site Description (include site size, physical appearance, local land use, etc.):

The former location of the Cedar Falls FMGP was to the south of 12th Street just west of the electric plant. The plant was 50 X 65 feet and was situated between a rail spur and electric plant to the east and the Chicago Great Western (CGW) Rail to the west. Storage holders were located along the CGW rail and purifier boxes were on the southwest corner of the plant. Currently, a gas regulator building and smokestack are standing in the vicinity of the FMGP. The original site map showing former locations of structures is attached. A city park (Washington) is located to the east and a creek (Dry Run) is located to the south. The site is currently used by the Cedar Falls Utility Co. in the production of electricity. The predominant land use in the site vicinity is urban residential housing.

Current Owner/Operator: Cedar Falls Utility Co. Phone No. (319) 266-1761

Additional Site Contact(s): Dean Crowe, Business Mgr. Phone No. (319) 266-1761

David Rusley, Elec Prod. Phone No. (319) 266-1761

Dates of Operation: From: 1934 To: 1954

Annual Production: High 0/143 Medium / Low / (Coal Gas/Water Gas)
(Highest Year) (100 MCF) (20 to 100 MCF) (<20 MCF)

Coal Tar/Oil Waste Generated: Yes X No ___ Est. Quantity 2,040,000 gal.

Purifier Waste Generated: Yes X No ___ Est. Quantity unknown

Other Waste Generation: Trace metals

55

30216161



Superfund

01A-00

PA - Former Coal Gasification Site
Cedar Falls, IA
Page 2

Condition of Soil Surface:

Grass, sand, and fine gravel traffic area. Coal dust present from operation of current power plant.

Proximity to: Surface Water 445 (ft) Potential Target Population 0
Dry Run (to south, flows into Cedar River)

Overland flow pathway from site to surface water (describe):

Flow pathway is very gentle slope directly south toward Dry Run. There are no levees along Dry Run or the Cedar River restricting flow into these waters.

Overland Flow Pathway Length 445 (ft)

Surface Water Usage:

There are no intakes on the Cedar River within 15 miles downstream of the site. Occasionally, individuals may retrieve tank loads of water from the river for private use. Recreation and fishing occurs along the length of the river.

Ground Water Usage:

The City of Cedar Falls has nine municipal wells serving 32,460 people. Cedar Falls wells #1 and #2 are within 600 feet of the site. In addition, Well #5 is 6,000 feet downgradient and Wells #3 and #4 are 8,500 feet downgradient of the site. The depths of Cedar Falls municipal wells ranges from 125 to 275 feet. The depth to the alluvial water table is 16 feet in the vicinity. The City of Waterloo has nine municipal wells; two are located within a 4-mile radius of the site. There are additional residences within a 4-mile radius of the site that are not served by the Cedar Falls or Waterloo municipal wells.

Proximity to: Water Supply Wells 2@ 600(ft) Potential Target Population 7,212
Upgradient X Downgradient Unknown

NOTE: The potential target population is an estimate of the proportion of the Cedar Falls population served by the two wells nearest the site.

Site Reconnaissance: Date: 8/22/90

Comments/Observations:

The site is flat, sloping slightly south. Ground cover is sand or fine gravel. Little or no vegetation is present. Some coal dust covers the ground. The current emissions stack is located on the former location of gas plant. A power line runs underground just south of the stack. The closest residence is to the northwest.

Site History:

In 1913, the City of Cedar Falls Gas, Water and Electric Department built an electric plant on the south side of 12th Street at 612 E. 12th. In 1929, the City purchased a gas distribution system and for three years obtained gas from Waterloo. In 1933-34, the City constructed the manufactured gas plant 200 feet southwest of the original electric plant structure. The gas plant operated for 20 years. By 1955, gas production had stopped and the plant was converted for operation on natural gas. In 1959, the Cedar Falls Utility Co. was established as an independent political subdivision of the City of Cedar Falls. The gas plant was demolished in 1961-62. Currently, the smokestack

sits on or just to the south of the former location of the gas plant. The site is now used in the operation of the electric power plant by Cedar Falls Utility Co.

Assessment of Potential Exposure Pathways: (evaluate migration/release potential):

Ground Water

The depth to the water table in the site vicinity is 15 to 16 feet. City wells range in depth from 125 to 275 feet. The closest municipal wells are 600 feet west of the site. If subsurface contamination is present, there would be a very high potential for release or migration to the water table and Silurian-Devonian aquifer. The area is a recharge area of the Cedar River.

Surface Water

Drainage is directly south to Dry Run which feeds into Cedar River within a mile. Overland flow pathway is 445 feet (taken from map of site). Subsurface contamination of ground water has a high potential to migrate to surface water due to the site's close proximity to Dry Run and its location 1,700 feet west of the Cedar River.

Air

No surface contamination was visible. Nothing was detected with personal monitoring equipment. Potential for air release and/or migration is low.

Soil Exposure

No surface soil contamination was visible. No subsurface soil contamination was noted in subsurface construction on-site activities by the Cedar Falls Utility Co. In conversations with Wayne Holmes, former employee, it was determined all tar wastes were taken by rail to the eastern U.S. All purifier wastes were buried northeast of Cedar Falls in the utility companies ash dump.

Recommendations:

It is recommended that a medium priority site inspection be performed on the Cedar Falls FMGP site. Though no contamination was found during the E & E/FIT reconnaissance and interviews with former employees determined all tar and purifier wastes were taken off site, it is possible that spills or leaks occurred over the 20-year life of the plant. Because of the proximity of residences, municipal wells, ground water, surface water, and sensitive environments to the site, a high degree of confidence is needed to verify whether contamination is present on site.

Interviews with former employees determined that tar wastes were shipped by rail to the east for alternative uses. Also, purifier wastes were transported to the company's ash dump northeast of town. Therefore, the FIT recommends that the status and location of this dump be investigated.

Attachments:

- ☒ References
- ☒ Site Location Map
- ☐ Site Sketch Map
- ☒ PA Form (2070-12)
- ☒ Photographs
- ☐ File Records
- ☒ Other (Site Map from 1948 Improvement Plan)

REFERENCES

Aarons, Ron, July 18, 1990, City of Cedar Falls, Developmental Services, Cedar Falls, Iowa, telephone conversation with Scott Hayes, E & E/FIT.

Cedar Falls Utility Company, Water Department, August 23, 1990, Cedar Falls, Iowa, telephone conversation with Scott Hayes, E & E/FIT.

Crowe, Dean, August 7, 1990, Cedar Falls Utility Company, Cedar Falls, Iowa, telephone conversation with Scott Hayes, E & E/FIT.

Ecology and Environment, Inc., August 22, 1990, site reconnaissance and interview with David Rusley and David Martin, Cedar Falls Utility Company, Cedar Falls, Iowa.

Hanson, Paul, July 16, 1990, former employee of Cedar Falls Gas, Water and Electric Company, Cedar Falls, Iowa, telephone conversation with Scott Hayes, E & E/FIT.

Holmes, Wayne, August 23, 1990, former employee of the Cedar Falls Gas Plant, Cedar Falls, Iowa, telephone conversation with Scott Hayes, E & E/FIT.

Malinger, Paul, August 23, 1990, Cedar Falls Utility Company, Cedar Falls, Iowa, telephone conversation with Scott Hayes, E & E/FIT.

Rusley, David, July 18, 1990, Cedar Falls Utility Company, Electrical Production Manager, Cedar Falls, Iowa, telephone conversation with Scott Hayes, E & E/FIT.

U.S. Department of Commerce, Bureau of the Census, August 23, 1990, Kansas City, Kansas, telephone conversation with Scott Hayes, E & E/FIT.

PRELIMINARY ASSESSMENT

PART 2 - WASTE INFORMATION

01 STATE
IA

02 SITE NUMBER

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES

(Check all that apply)

X A. SOLID E. SLURRY

X B. POWDER, FINES X F. LIQUID

X C. SLUDGE G. GAS

D. OTHER

(Specify)

02 WASTE QUANTITY AT SITE

(Measures of waste quantities must be independent)

TONS **[unknown]**

CUBIC YARDS to

NO.	OF DRUMS	date
1	1	1
2	1	1
3	1	1
4	1	1
5	1	1
6	1	1
7	1	1
8	1	1
9	1	1
10	1	1
11	1	1
12	1	1
13	1	1
14	1	1
15	1	1
16	1	1
17	1	1
18	1	1
19	1	1
20	1	1
21	1	1
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30	1	1
31	1	1
32	1	1
33	1	1
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36	1	1
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84	1	1
85	1	1
86	1	1
87	1	1
88	1	1
89	1	1
90	1	1
91	1	1
92	1	1
93	1	1
94	1	1
95	1	1
96	1	1
97	1	1
98	1	1
99	1	1
100	1	1

03 WASTE CHARACTERISTICS

(Check all that apply)

X A. TOXIC

B. CORROSIVE

C. RADIOACTIVE

X D. PERSISTENT

E. SOLUBLE

F. INFECTIOUS

G. FLAMMABLE

H. IGNITABLE

I. HIGHLY VOLATILE

J. EXPLOSIVE

K. REACTIVE

L. INCOMPATIBLE

M. NOT APPLICABLE

III. WASTE TYPE (alleged)

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	unknown	unknown	coal tar (PAHs)
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	unknown	unknown	(PAHs)/coal tar
IOC	INORGANIC CHEMICALS	unknown	unknown	cyanides
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	unknown	unknown	unknown

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers) (alleged)

[illegible]

V. FEEDSTOCKS (See Appendix for CAS Numbers)

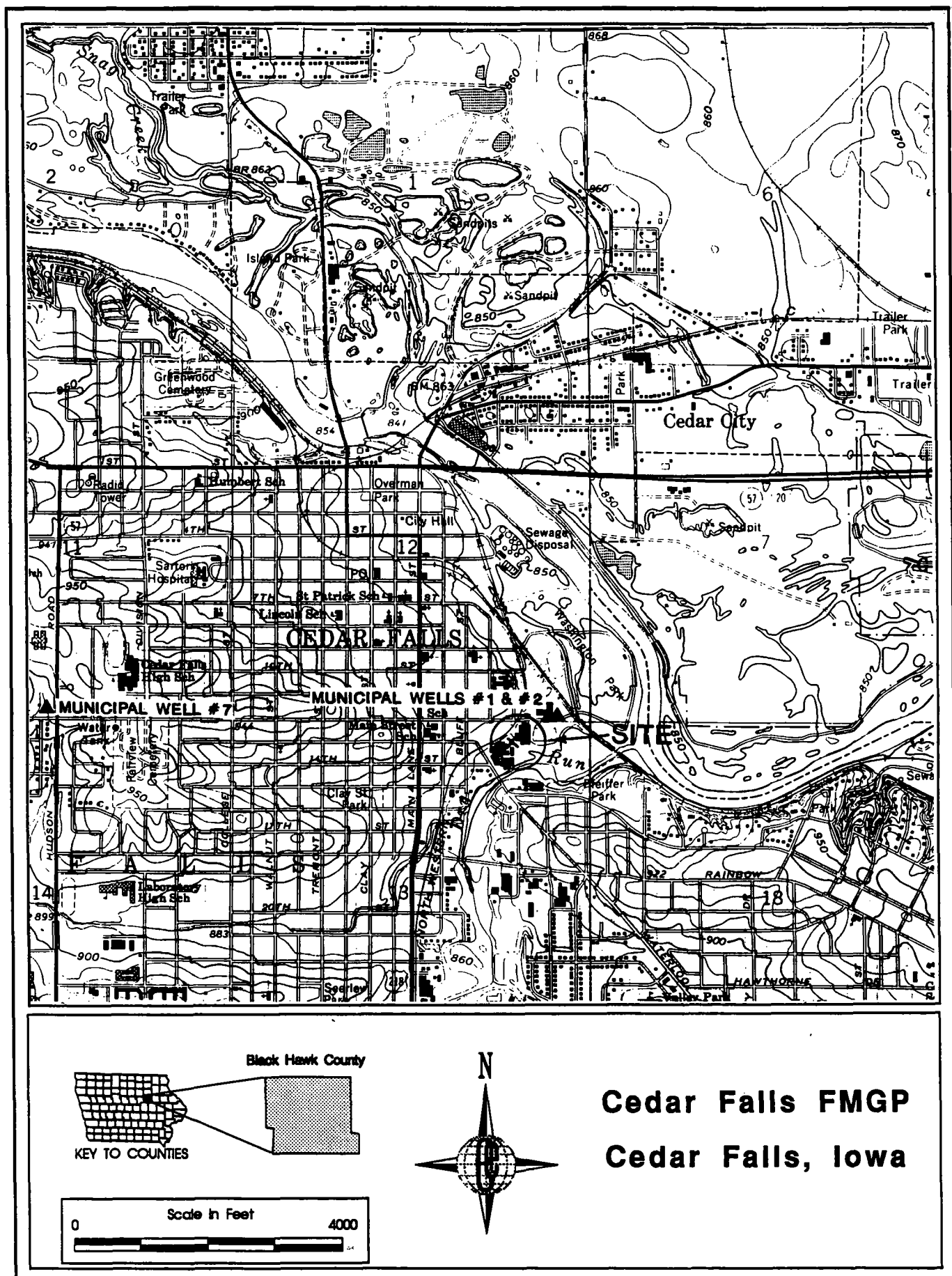
CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

E & E/FIT Preliminary Assessment Reconnaissance, August 22, 1990, TDD #F-07-9005-013.
E & E/FIT Files.

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT		I. IDENTIFICATION	
EPA		01 STATE IA	02 SITE NUMBER
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS			
II. HAZARDOUS CONDITIONS AND INCIDENTS			
<div style="display: flex; justify-content: space-between;"> <div>01 <input checked="" type="checkbox"/> A. GROUND WATER CONTAMINATION</div> <div>02 <input type="checkbox"/> OBSERVED (DATE: _____) <input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED</div> </div> <div style="display: flex; justify-content: space-between;"> <div>03 POPULATION POTENTIALLY AFFECTED: _____</div> <div>04 NARRATIVE DESCRIPTION</div> </div> <p>None known or reported to date. However, if wastes were disposed on site they probably were buried, creating a potential for ground water contamination.</p>			
<div style="display: flex; justify-content: space-between;"> <div>01 <input type="checkbox"/> B. SURFACE WATER CONTAMINATION</div> <div>02 <input type="checkbox"/> OBSERVED (DATE: _____) <input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED</div> </div> <div style="display: flex; justify-content: space-between;"> <div>03 POPULATION POTENTIALLY AFFECTED: _____</div> <div>04 NARRATIVE DESCRIPTION</div> </div> <p>None known or reported to date.</p>			
<div style="display: flex; justify-content: space-between;"> <div>01 <input type="checkbox"/> C. CONTAMINATION OF AIR</div> <div>02 <input type="checkbox"/> OBSERVED (DATE: _____) <input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED</div> </div> <div style="display: flex; justify-content: space-between;"> <div>03 POPULATION POTENTIALLY AFFECTED: _____</div> <div>04 NARRATIVE DESCRIPTION</div> </div> <p>None known or reported to date.</p>			
<div style="display: flex; justify-content: space-between;"> <div>01 <input type="checkbox"/> D. FIRE/EXPLOSIVE CONDITIONS</div> <div>02 <input type="checkbox"/> OBSERVED (DATE: _____) <input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED</div> </div> <div style="display: flex; justify-content: space-between;"> <div>03 POPULATION POTENTIALLY AFFECTED: _____</div> <div>04 NARRATIVE DESCRIPTION</div> </div> <p>None known or reported to date.</p>			
<div style="display: flex; justify-content: space-between;"> <div>01 <input type="checkbox"/> E. DIRECT CONTACT</div> <div>02 <input type="checkbox"/> OBSERVED (DATE: _____) <input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED</div> </div> <div style="display: flex; justify-content: space-between;"> <div>03 POPULATION POTENTIALLY AFFECTED: _____</div> <div>04 NARRATIVE DESCRIPTION</div> </div> <p>None known or reported to date.</p>			
<div style="display: flex; justify-content: space-between;"> <div>01 <input checked="" type="checkbox"/> F. CONTAMINATION OF SOIL</div> <div>02 <input type="checkbox"/> OBSERVED (DATE: _____) <input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED</div> </div> <div style="display: flex; justify-content: space-between;"> <div>03 AREA POTENTIALLY AFFECTED: _____</div> <div>04 NARRATIVE DESCRIPTION</div> </div> <p style="text-align: center;">(Acres)</p> <p>None known or reported to date. However, if wastes were buried on site, then subsurface soils are likely to be contaminated.</p>			
<div style="display: flex; justify-content: space-between;"> <div>01 <input checked="" type="checkbox"/> G. DRINKING WATER CONTAMINATION</div> <div>02 <input type="checkbox"/> OBSERVED (DATE: _____) <input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED</div> </div> <div style="display: flex; justify-content: space-between;"> <div>03 POPULATION POTENTIALLY AFFECTED: _____</div> <div>04 NARRATIVE DESCRIPTION</div> </div> <p>None known or reported to date. However, if wastes were disposed on site they probably were buried, creating a potential for ground water contamination. Two municipal wells are located <600 feet from the site.</p>			
<div style="display: flex; justify-content: space-between;"> <div>01 <input type="checkbox"/> H. WORKER EXPOSURE/INJURY</div> <div>02 <input type="checkbox"/> OBSERVED (DATE: _____) <input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED</div> </div> <div style="display: flex; justify-content: space-between;"> <div>03 WORKERS POTENTIALLY AFFECTED: _____</div> <div>04 NARRATIVE DESCRIPTION</div> </div> <p>None known or reported to date.</p>			
<div style="display: flex; justify-content: space-between;"> <div>01 <input type="checkbox"/> I. POPULATION EXPOSURE/INJURY</div> <div>02 <input type="checkbox"/> OBSERVED (DATE: _____) <input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED</div> </div> <div style="display: flex; justify-content: space-between;"> <div>03 POPULATION POTENTIALLY AFFECTED: _____</div> <div>04 NARRATIVE DESCRIPTION</div> </div> <p>None known or reported to date.</p>			

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT		I. IDENTIFICATION	
EPA		01 STATE IA	02 SITE NUMBER S12
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS			
II. HAZARDOUS CONDITIONS AND INCIDENTS (CONTINUED)			
01 <u> </u> J. DAMAGE TO FLORA		02 <u> </u> OBSERVED (DATE: <u> </u>) <u> </u> POTENTIAL <u> </u> ALLEGED	
04 NARRATIVE DESCRIPTION None known or reported to date.			
01 <u> </u> K. DAMAGE TO FAUNA		02 <u> </u> OBSERVED (DATE: <u> </u>) <u> </u> POTENTIAL <u> </u> ALLEGED	
04 NARRATIVE DESCRIPTION (Include name(s) of species) None known or reported to date.			
01 <u> </u> L. CONTAMINATION OF FOOD CHAIN		02 <u> </u> OBSERVED (DATE: <u> </u>) <u> </u> POTENTIAL <u> </u> ALLEGED	
04 NARRATIVE DESCRIPTION None known or reported to date.			
01 <u> </u> M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums)		02 <u> </u> OBSERVED (DATE: <u> </u>) <u> </u> POTENTIAL <u> </u> ALLEGED	
03 POPULATION POTENTIALLY AFFECTED: <u> </u>		04 NARRATIVE DESCRIPTION None known or reported to date.	
01 <u> </u> N. DAMAGE TO OFF-SITE PROPERTY		02 <u> </u> OBSERVED (DATE: <u> </u>) <u> </u> POTENTIAL <u> </u> ALLEGED	
04 NARRATIVE DESCRIPTION None known or reported to date.			
01 <u> </u> O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs		02 <u> </u> OBSERVED (DATE: <u> </u>) <u> </u> POTENTIAL <u> </u> ALLEGED	
04 NARRATIVE DESCRIPTION None known or reported to date.			
01 <u> </u> P. ILLEGAL/UNAUTHORIZED DUMPING		02 <u> </u> OBSERVED (DATE: <u> </u>) <u> </u> POTENTIAL <u> </u> ALLEGED	
04 NARRATIVE DESCRIPTION None known or reported to date.			
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS purifier wastes were transported off site to a location northeast of Cedar Falls where they were buried in a dump used to dispose of the company's ash wastes.			
III. TOTAL POPULATION POTENTIALLY AFFECTED: <u> </u>			
IV. COMMENTS			
V. SOURCES OF INFORMATION (Cite specific references. e.g., state files, sample analysis, reports) E & E/FIT Preliminary Assessment Reconnaissance, August 22, 1990, TDD #F-07-9005-013. E & E/FIT Files.			



Prepared by Lee Robertson
Ecology & Environment/FTT August 1990

Waste Site Tracking #IA0278
Source: USGS 7.5' Cedar Falls, IA Quad.1980

Figure 1: SITE LOCATION

REMEDIAL SITE ASSESSMENT DECISION - EPA REGION VII

Site Name: Cedar Falls FMGP EPA ID#: IAD 98457 1117

Alias Site Names: _____

City: Cedar Falls County or Parish: Blackhawk State: IA

Refer to Report Dated: April 1991 Report type: Site Inspection

Report developed by: Jacobs Engineering (ARCS)

Site: Cedar Rapids FMGP
ID #: IAD 98 457 1117
Break: 1.5
Other: 12-29-93

DECISION:

☒ 1. Further Remedial Site Assessment under CERCLA (Superfund) is not required because:

☒ 1a. Site does not qualify for further remedial site assessment under CERCLA
(Site Evaluation Accomplished - SEA)
NFRAP

1b. Site may qualify for further action, but is deferred to: RCRA
NRC

2. Further Assessment Needed Under CERCLA: 2a. (optional) Priority: Higher Lower

2b. Activity Type: PA SI ESI HRS evaluation

Other: _____

DISCUSSION/RATIONALE:

FMGP operated from 1933 - 1953. According to locals, no tan wells or underground disposal of wastes ever occurred. Construction of power plant on site revealed no "pockets" of contamination.

Highest levels of PAH in soil < 100 ppm and on-site production well shows no contamination.

For the above reasons, even though a municipal well is < 1/4 mile from site, further CERCLA/SARA investigation is not deemed necessary.

Report Reviewed and Approved by: Pete Culver Signature: Pete Culver Date: 12/29/93

Site Decision Made by: Pete Culver Signature: Pete Culver Date: 12/29/93



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PHOTOGRAPHIC RECORD

SITE NAME: CEGAR FALLS FMGP
SITE LOCATION: CEGAR FALLS, IOWA
TDD/PAN#: F-07-9005-013/FIA0281PA

No.: 01
Subject

SMOKESTACK LOCATED ON SOUTHEAST
PORTION OF FORMER LOCATION OF THE
GAS PLANT, RAIL SPUR AND ELECTRIC
PLANT TO THE EAST, PATCHES OF COAL
DUST

Photographer

MARY KNOWLES

Witness

SCOTT HAYES

Date/Time

8-22-90/9:10

Direction

SOUTH



No.: 02
Subject

SMOKESTACK LOCATED ON SOUTHEAST
PORTION OF FORMER LOCATION OF THE
GAS PLANT, GAS REGULATOR BUILDING
ON NORTHWEST PORTION OF GAS PLANT
FORMER LOCATION, NEARBY RESIDENCES
IN BACKGROUND

Photographer

MARY KNOWLES

Witness

SCOTT HAYES

Date/Time

8-22-90/9:15

Direction

NORTH





ecology and environment, inc.

PHOTOGRAPHIC RECORD

SITE NAME: CEGAR FALLS FMGP
SITE LOCATION: CEGAR FALLS, IOWA
TDD/PAN#: F-07-9005-013/FIA0281PA

No.: 03

Subject

SMOKESTACK AND SMALL REGULATOR
BUILDING ON FORMER LOCATION OF GAS
PLANT, PORTION OR ELECTRIC PLANT
BUILT IN 1958.

Photographer

MARY KNOWLES

Witness

SCOTT HAYES

Date/Time

8-22-90/9:05

Direction

SOUTHEAST



No.: 04

Subject

1 OF 2 COAL PILES, ELECTRIC PLANT
BOILERS, SMALL PUMPHOUSE ON RIGHT
FOR 1 OF 4 WELLS ON SITE, TREES
INDICATE DRY RUN

Photographer

MARY KNOWLES

Witness

SCOTT HAYES

Date/Time

8-22-90/9:25

Direction

EAST



APPENDIX B
Sample Unfilmed Document Target

UNFILMED DOCUMENT

THE FOLLOWING DOCUMENT THAT OCCUPIED THIS POSITION IN THE
ADMINISTRATIVE RECORD WAS NOT FILMED BECAUSE:

- ☐ IT IS OF SUBSTANDARD QUALITY AND WOULD NOT HAVE
PRODUCED A LEGIBLE IMAGE
- ☒ IT IS AN OVERSIZE DOCUMENT THAT WOULD HAVE REQUIRED
FILMING IN MORE THAN TWO OVERLAPPING SECTIONS
- ☐ IT IS A PHOTOGRAPH OR A DOCUMENT CONTAINING COLORS
THAT WOULD NOT HAVE PRODUCED A LEGIBLE IMAGE

DOCUMENT TITLE: MAP SITE

NUMBER OF PAGES: 1

THIS DOCUMENT IS ON FILE AT THE EPA RECORDS CENTER AND MAY BE
EXAMINED UPON REQUEST

Chicago Great Western Railroad

TWELFTH STREET

Railroad Siding 7

Railroad Siding 7

Property Line 7

COAL STORAGE AREA

RELIEF HOLDER

GAS PLANT

STORAGE HOLDER

Existing Coal Unloading Hopper

Coal Unloading Hopper

Existing Overhead Ash Handling Monorail

8" Pipe Outlet Elev. 92.04

525 KW Diesel

DIESEL ROOM Operating Floor Elev. 92.65

450 KW Diesel

BOILER ROOM Operating Floor Elev. 92.54

412 HP Boiler

412 HP Boiler

360 HP Boiler

PUMP ROOM

1500 KW Turbine

TURBINE ROOM Operating Floor Elev. 96.67

2500 KW Turbine

500 KW Turbine

SWITCHGEAR ROOM

Oil Well

Brick Pavement

SCREEN BUILDING

SWIMMING POOL

8" Circulating Water discharge from 500 KW Unit

Existing Septic Tank

Existing Blow-off Line

18" Drain Overflow

LEGEND OF CONTRACTORS

- Section 1 - Boiler - Murray Iron Works Co.
- Section 2 - Stoker - Detroit Stoker Co.
- Section 3 - Setting - Nels. Werner.
- Section 4 - Building Work
- Section 5 - Piping
- Section 6 - Mechanical Work - Owner
- Section 7 - Electrical Work - Owner
- Section 8 - Coal Handling Equipment
- Section 9 - Pipe Covering & Equipment Installation
- Item A - Boiler Feed Pumps - De Laval Steam Turbine Co.
- Item B - Dewatering Pumping - Cochran Engineering Co.
- Item C - Water Treating Equipment - Cochran Engineering Co.
- Item D - Structural Steel, Steel Stack & Coal Bunker - Steel
- Item E - Windows - Owner
- Item F - Motor Starters and Panel Boards - Owner

Notes

- Note "A" - Existing 6" drain line from Boiler Room floor drains is to be removed by the Contractor of Section 5.
- Note "B" - Existing blow-off line is to be removed and replaced by line No. 166 by the Contractor of Section 5.

LEGEND

- Existing Structure
- New Structure

NOTES

Numbers shown in this manner refer to drawings and Governing Schedule A Specifications.

REVISIONS				CEDAR FALLS MUNICIPAL ELECTRIC PLANT	
DATE				GAS POWER PLANT IMPROVEMENTS	
1	2/1/50	AS SHOWN	BY OWNER	LOT A LAYOUT	
2	2/1/50	AS SHOWN	BY OWNER	STANLEY ENGINEERING COMPANY	
3	2/1/50	AS SHOWN	BY OWNER	MUSCATINE	
4	2/1/50	AS SHOWN	BY OWNER	NO	
5	2/1/50	AS SHOWN	BY OWNER	1100	
6	2/1/50	AS SHOWN	BY OWNER	PPH	